

Title (en)  
FAULT LOCATION IN OPTICAL COMMUNICATIONS NETWORKS

Publication  
**EP 0318335 B1 19930901 (EN)**

Application  
**EP 88311259 A 19881128**

Priority  
GB 8727846 A 19871127

Abstract (en)  
[origin: WO8905078A1] A passive, all optical communications network is provided in which a single optical source in a central station serves many outstations (e.g. telephones in customers' premises). Time division multiplexed optical signals from a laser source are transmitted along a single optical fibre (14) from a central station (4). The signal is split between several secondary fibres at a first splitter (10) (e.g. array of passive couplers) and between further sets of fibres at a second set of splitters (12). At this stage there are 120 individual fibres to customers' premises (8). Digital speech or data is sent back to the central station by a laser in the customers' premises operating in a low duty-cycle mode. The 120 data streams are interleaved at the branching points.

IPC 1-7  
**H04B 10/00; H04J 14/00; H04L 25/49**

IPC 8 full level  
**H04B 10/27** (2013.01); **H04B 7/24** (2006.01); **H04B 10/035** (2013.01); **H04B 10/071** (2013.01); **H04B 10/077** (2013.01); **H04B 10/272** (2013.01); **H04J 3/06** (2006.01); **H04J 14/00** (2006.01); **H04J 14/08** (2006.01); **H04L 7/00** (2006.01); **H04L 12/28** (2006.01); **H04L 25/03** (2006.01); **H04L 25/49** (2006.01); **H04M 3/00** (2006.01); **H04M 11/00** (2006.01)

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